

Low Fluorescence Nylon/Glass Composites
for Micro-Analytical Diagnostic Applications

ABSTRACT OF THE DISCLOSURE

5 An improved combination non-luminescent microporous
membrane and solid support for use in micro-analytical diagnostic applications
is disclosed. Specifically, a multi-cell non-luminescent substrate having a
porous membrane formed by a phase inversion process effectively attached by
covalent bonding through a surface treatment to a substrate that prepares the
substrate to sufficiently, covalently bond to the non-luminescent microporous
membrane formed by a phase inversion process such that the combination
10 produced thereby is useful in microarray applications and wherein the porous
non-luminescent nylon multi-cell substrate is covalently bonded to a solid base
member, such as, for example, a glass or Mylar microscope slide, such that the
combination produced thereby is useful in microarray applications. Apparatus
and methods for fabricating the non-luminescent multi-cell substrate are also
15 disclosed.